

CLASS EXERCISES

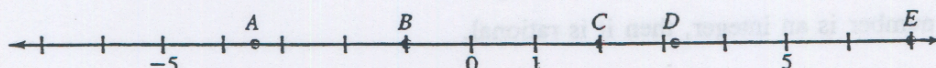
Use the diagram on page 3 to name the subset(s) of the real numbers to which each of the following belongs.

1. 7 2. -8 3. 3 4. $-5.777\ldots$ 5. $\sqrt{5}$

Determine the correct relationship between each pair of numbers. Use the symbols $>$, $<$, or $=$.

6. -3 ? -8 7. 8.2 ? 8.03 8. 39 ? -2
9. 0 ? 5 10. 0 ? $-4.80480080008\ldots$ 11. 6.0 ? 6.00

12. Name the point which corresponds to each of these coordinates: -3.5 , π , 7 , -1 , and 2 .



Show that each decimal can be written as a quotient of two integers.

13. 0.34 14. $0.\overline{7}$ 15. $0.\overline{26}$

PRACTICE EXERCISES

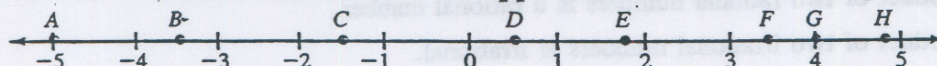
Use the diagram on page 3 to name the subsets of the real numbers to which each of the following belongs.

1. 4 2. $\sqrt{2}$ 3. π 4. -6 5. 0
6. 103 7. $0.666\ldots$ 8. -0.5 9. 2.5 10. $2\sqrt{6}$

Draw a number line and place each number on the line in its approximate location.

11. 0 12. $-\sqrt{24}$ 13. -2 14. $2\frac{1}{2}$ 15. $4\frac{2}{3}$ 16. π

Give the coordinate that indicates the approximate location of each point.



17. point A 18. point B 19. point C 20. point D
21. point E 22. point F 23. point G 24. point H

Write a comparison statement for each pair of numbers using $<$, $=$, or $>$.

25. -7 ? -9 26. 3 ? 3 27. 14 ? $\sqrt{14}$
28. $\sqrt{6}$? $\sqrt{10}$ 29. 0 ? $-0.333\ldots$ 30. 0.8 ? $\frac{4}{5}$

Show that each decimal can be written as a quotient of two integers.

31. 0.32 32. 1.8 33. 0.22 34. 2.125
35. $0.\overline{6}$ 36. $0.\overline{17}$ 37. $0.\overline{45}$ 38. $0.\overline{135}$

Convert each fraction to decimal form.

39. $\frac{3}{8}$ 40. $\frac{7}{25}$ 41. $\frac{6}{11}$ 42. $\frac{2}{7}$